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Γ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
_	10/522,246	08/05/2005	Guojun Dai	05788.0339-00000	8809		
	22852	7590 07/21/2006	07/21/2006		EXAMINER		
	FINNEGAN,	HENDERSON, FARA	BOLDA, ERIC L				
	LLP 901 NEW YO	RK AVENUE, NW		ART UNIT	PAPER NUMBER		
		N, DC 20001-4413		3663			
				DATE MAILED: 07/21/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)						
		10/522,246		DAI ET AL.						
	Office Action Summary	Examiner		Art Unit						
	•									
	The MAILING DATE of this communication app	Eric Bolda	er sheet with the co	3663 orrespondence add	ress					
	Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)⊠	Responsive to communication(s) filed on <u>02 June 2006</u> .									
2a) <u></u> ☐	a) This action is FINAL . 2b) This action is non-final.									
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.										
Disposition of Claims										
4)⊠	4)⊠ Claim(s) <u>29-59</u> is/are pending in the application.									
	4a) Of the above claim(s) <u>44-59</u> is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.									
·	Claim(s) 29-43 is/are rejected.									
·	Claim(s) is/are objected to.									
8)[]	Claim(s) are subject to restriction and/or	r election require	ment.							
Applicati	on Papers									
9)[The specification is objected to by the Examine	r.								
10)⊠	10)⊠ The drawing(s) filed on <u>25 January 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (ınder 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:										
	1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No										
	3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).										
* See the attached detailed Office action for a list of the certified copies not received.										
Attachmen										
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) 🗌	Interview Summary Paper No(s)/Mail Da							
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date <u>1/25/2005</u> .	5) 6)	Notice of Informal Pa	atent Application (PTO-	152)					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, species with Nb as the first metal oxide, W as the second metal oxide, and Al further oxide, in the reply filed on June 2, 2006 is acknowledged. The traversal is on the ground(s) there was no support for the conclusion that the inventions do not relate to a single inventive concept. This is not found persuasive because references cited in the International Search Report show that there is not a contribution which each of the inventions makes over the prior art. Claims 29-43 read on the elected species.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 29-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regard to claims 29, 29, 42, and 43, the claims recite "a pump radiation at a wavelength λ_p , but the value of the wavelength in nanometers is not specified.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 29, 30,,31, 35, 36, 37, 38, 39, 40, 41, 42, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aitken (US Pat. No. 6,194,334) in view of Masuda (US Pat. No. 6,771,414).

Aitken discloses a tellurite glass to be used in optical communication components with a composition of 10-90% tellurite, at least 5% of the metal oxide WO₃ (4th col lines 31-42) and 0-30% a modifying oxide of Nb (4th col lines 54-56) (all quantities in molar percent). The glass is appropriate for clad optical fiber production (4th col. lines 60-62). Aitken does not specifically disclose that the glass is part of an optical fiber in a Raman amplifier, and comprising at least one pump laser optical coupled to the optical fiber, the pump adapted to emitting pump radiation at a wavelength. However, Masuda teaches in Fig. 6 a Raman amplifier comprising at least one optical fiber (1) and at least one pump (LDM-1) optically coupled to the optical fiber. The optical fiber comprises a tellurite glass.

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The clauses "adapted for emitting a pump radiation" and "suitable for enhancing Raman effect" are essentially statements of intended or desired use. Thus, these claims as well as other statements of intended use do not serve to patentably distinguish the claimed structure over that of the reference. See <u>In re Pearson</u>, 181 USPQ 641; <u>In re Yanush</u>, 177 USPQ 705; <u>In re Finsterwalder</u>, 168 USPQ 530; <u>In re Casey</u>, 512 USPQ 235; <u>In re Otto</u>, 136 USPQ 458; <u>Ex parte Masham</u>, 2 USPQ 2nd 1647.

See MPEP § 2114 which states:

A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from the prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. <u>Ex parte Masham</u>, 2 USPQ 2nd 1647

Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than functions. In re Danly, 120 USPQ 528, 531.

Apparatus claims cover what a device is not what a device does. <u>Hewlett-Packard Co. v. Bausch & Lomb Inc.</u>, 15 USPQ2d 1525, 1528.

It would have been obvious to one skilled in the art (e. g. an optical engineer) to produce the glass composition of Aitken, in the optical fiber and Raman amplifier of Masuda, for the purpose of broadening the amplifier spectrum.

With regard to claim 34, Masuda discloses that tellurite fiber further comprises alkaline metals such as Al (6th col. line 4).

Note that the citations made herein are done so for the convenience of the applicant; they are in no way intended to be limiting. The prior art should be considered in its entirety.

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Information Disclosure Statement

6. The information disclosure statement filed on Jan. 25, 2005 has been considered by the Examiner.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Snitzer, Aitken, Ohishi, Mead, and Stegeman et al.

8. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Eric Bolda whose telephone number is 571-272-8104. The examiner can normally be reached on M-F from 8:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Jack Keith, can be reached on 571-272-6878. Please note the fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JACK KEITH SUPERVISORY PATENT EXAMINER

EB.

Eric Bolda